

IN THE CLAIMS

Please amend the claims read as follows:

1-4. (Canceled)

5. (Currently Amended) An aluminum alloy thermal exchanger comprising:

aluminum alloy metal having a surface provided with

(a) a first protective layer of chemical conversion coating produced by using a first treatment liquid, the first treatment liquid comprising a water soluble vanadium compound and a fluoro-zirconium complex compound; and

(b) a second protective layer of hydrophilic film on the first protective layer, the second protective layer being produced by adding and drying a second treatment liquid, the second treatment liquid comprising an aqueous polyvinyl alcohol polymer having a vinyl alcohol unit of more than 40 mol% and another polymerization unit of less than 60 mol %, polyoxyethylene glycol having a weight average molecular weight of 6,000 and 1,000,000, a vanadium compound, and a zirconium compound, wherein, in the second treatment liquid, the ratio of the weight% of zirconium and to vanadium is 40-350.

6. (Previously Presented) The aluminum alloy thermal exchanger according to claim 5, wherein the water soluble vanadium compound of the first treatment liquid consists of at least one organic vanadium compound selected from the group consisting of vanadium acetyl acetonate and vanadyl acetyl acetonate.

7. (Previously Presented) The aluminum alloy thermal exchanger according to claim 5, wherein the weight of the first protective layer is 10-2000 mg/m<sup>2</sup>, the weight of the vanadium in the first protective layer is 2-500 mg/m<sup>2</sup>, and the weight of the zirconium in the first protective layer is 2-500 mg/m<sup>2</sup>.

8. (Previously Presented) The aluminum alloy thermal exchanger according to claim 5, wherein the weight of the second protective layer is 30-5000 mg/m<sup>2</sup>, the weight of the vanadium in the second protective layer is 2-500 mg/m<sup>2</sup>, and the weight of the zirconium in the second protective layer is 1-1750 mg/m<sup>2</sup>.

9. (Previously Presented) The aluminum alloy thermal exchanger according to claim 5, wherein said fluoro-zirconium complex compound comprises at least one of zirconium hydrofluoride, zirconium-ammonium fluoride and zirconium-potassium fluoride.